

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY WESTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	513	0.0	305	0.0	OFF	513	0	305	0.00	0	70.1	70.1	70.1	38.2	38.2
1-2 AM	265	0.0	157	0.0	OFF	265	0	157	0.00	0	70.2	70.2	70.2	38.9	38.9
2-3 AM	199	0.0	118	0.0	OFF	199	0	118	0.00	0	70.2	70.2	70.2	39.1	39.1
3-4 AM	165	0.0	98	0.0	OFF	165	0	98	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	190	0.0	113	0.0	OFF	190	0	113	0.00	0	70.2	70.2	70.2	39.2	39.2
5-6 AM	318	0.0	189	0.0	OFF	318	0	189	0.00	0	70.2	70.2	70.2	38.8	38.8
6-7 AM	942	0.0	559	0.0	OFF	942	0	559	0.00	0	69.6	69.6	69.6	36.9	36.9
7-8 AM	2665	0.0	1582	0.0	OFF	2665	0	1582+	0.00	0	67.4	67.4	67.4	31.6	31.6
8-9 AM	4037	0.0	2397	0.0	OFF	4037	0	2397+	0.00	0	63.3	63.3	63.3	27.4	27.4
9-10 AM	3287	0.0	1952	0.0	OFF	3287	0	1952+	0.00	0	66.6	66.6	66.6	29.7	29.7
10-11 AM	2456	0.0	1459	0.0	1499	1987	469	1928+	15.07	384	67.7	7.1	30.8	32.2	30.4
11A-NOON	2321	0.0	1378	0.0	1499	1500	821	2199+	19.65	486	67.9	6.1	30.8	32.7	29.2
NOON-1PM	2475	0.0	1469	0.0	1499	1534	940	2410+	20.50	508	67.7	6.0	30.8	32.2	28.1
1-2 PM	2683	0.0	1594	0.0	1500	1541	1142	2736+	21.99	548	67.4	5.8	30.8	31.5	26.5
2-3 PM	2743	0.0	1628	0.0	1500	1512	1231	2859+	22.68	566	67.3	5.8	30.8	31.4	25.8
3-4 PM	2877	0.0	1709	0.0	OFF	2877	0	1709+	0.54	52	67.1	46.8	46.8	31.0	31.0
4-5 PM	3160	0.0	1877	0.0	OFF	3160	0	1877+	0.00	0	66.8	66.8	66.8	30.1	30.1
5-6 PM	3240	0.0	1924	0.0	OFF	3240	0	1924+	0.00	0	66.7	66.7	66.7	29.9	29.9
6-7 PM	3015	0.0	1790	0.0	OFF	3015	0	1790+	0.00	0	67.0	67.0	67.0	30.6	30.6
7-8 PM	2575	0.0	1530	0.0	OFF	2575	0	1530+	0.00	0	67.5	67.5	67.5	31.9	31.9
8-9 PM	1873	0.0	1112	0.0	OFF	1873	0	1112	0.00	0	68.4	68.4	68.4	34.0	34.0
9-10 PM	1510	0.0	897	0.0	OFF	1510	0	897	0.00	0	68.9	68.9	68.9	35.1	35.1
10-11 PM	1314	0.0	781	0.0	OFF	1314	0	781	0.00	0	69.1	69.1	69.1	35.7	35.7
11PM-MID	1058	0.0	628	0.0	OFF	1058	0	628	0.00	0	69.4	69.4	69.4	36.5	36.5

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0102
MAIN ROUTE WITH WORKS	0.0087
DIVERSION	0.0492

PIA: Personal Injury Accidents

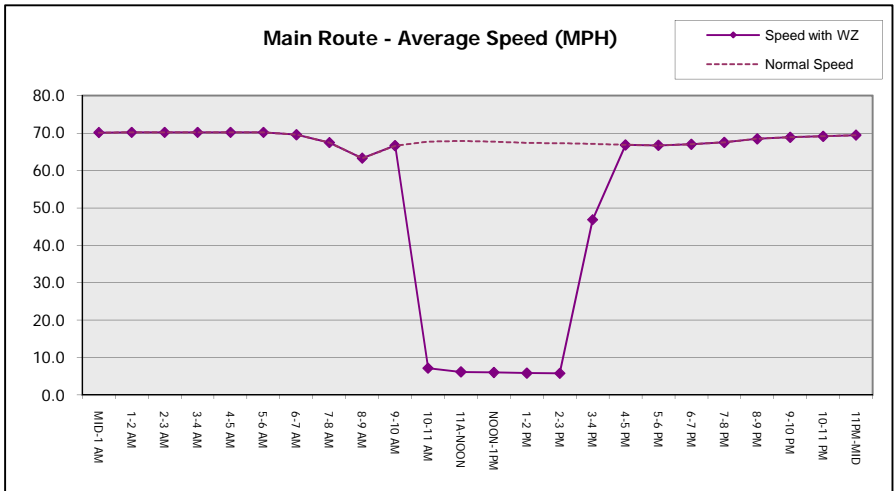
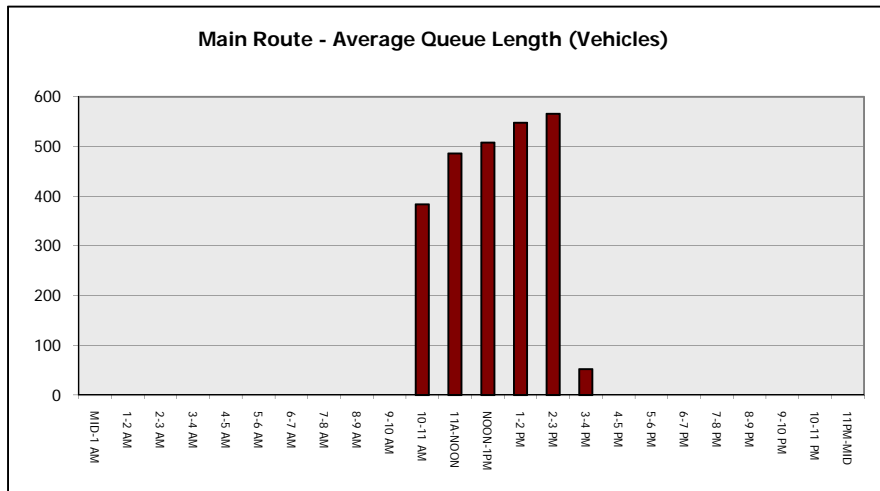
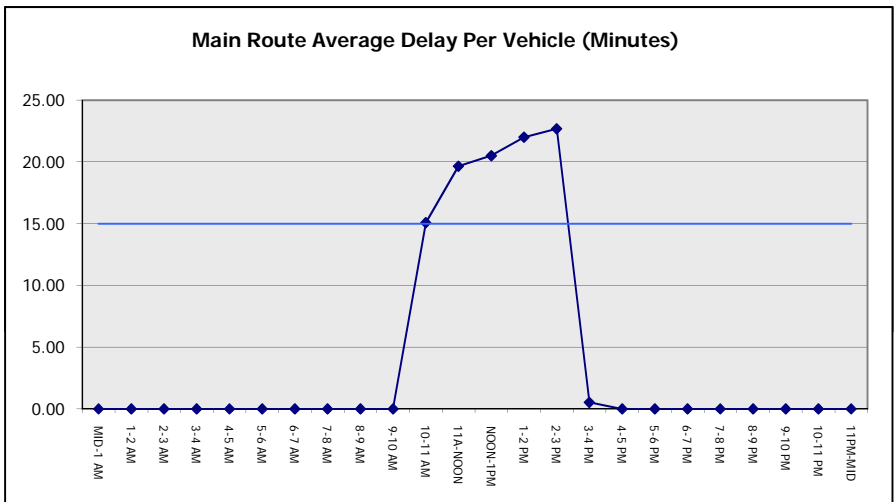
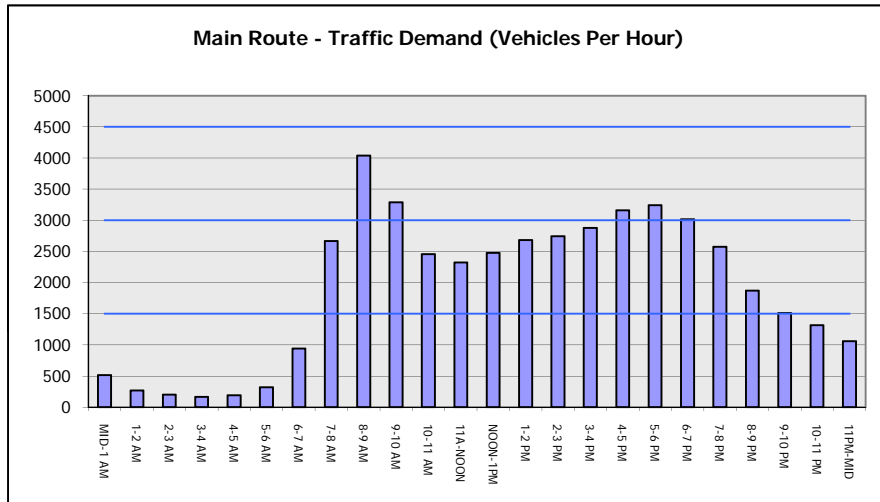
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$72,985
CONGESTED HOURS PER DAY*	5

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	OCTOBER Analyzed for 2009 Construction Season
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SUMMARY OF TRAFFIC MODEL OUTPUT	
FRIDAY	EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	509	0.0	301	0.0	OFF	509	0	301	0.00	0	70.1	70.1	70.1	38.2	38.2
1-2 AM	320	0.0	190	0.0	OFF	320	0	190	0.00	0	70.2	70.2	70.2	38.8	38.8
2-3 AM	189	0.0	112	0.0	OFF	189	0	112	0.00	0	70.2	70.2	70.2	39.2	39.2
3-4 AM	174	0.0	104	0.0	OFF	174	0	104	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	176	0.0	105	0.0	OFF	176	0	105	0.00	0	70.2	70.2	70.2	39.2	39.2
5-6 AM	288	0.0	171	0.0	OFF	288	0	171	0.00	0	70.2	70.2	70.2	38.9	38.9
6-7 AM	775	0.0	460	0.0	OFF	775	0	460	0.00	0	69.7	69.7	69.7	37.4	37.4
7-8 AM	1723	0.0	1023	0.0	OFF	1723	0	1023	0.00	0	68.6	68.6	68.6	34.5	34.5
8-9 AM	2775	0.0	1648	0.0	OFF	2775	0	1648+	0.00	0	67.3	67.3	67.3	31.3	31.3
9-10 AM	2364	0.0	1403	0.0	OFF	2364	0	1403+	0.00	0	67.8	67.8	67.8	32.5	32.5
10-11 AM	2008	0.0	1192	0.0	1499	1966	42	1234+	9.45	252	68.2	9.5	30.8	33.6	33.7
11A-NOON	2185	0.0	1298	0.0	1499	1510	675	1972+	18.82	464	68.0	6.3	30.8	33.1	30.3
NOON-1PM	2569	0.0	1526	0.0	1499	1571	998	2524+	21.00	522	67.6	6.0	30.8	31.9	27.6
1-2 PM	2810	0.0	1668	0.0	1500	1552	1257	2925+	23.05	576	67.3	5.7	30.8	31.2	25.5
2-3 PM	3003	0.0	1783	0.0	1500	1561	1442	3225+	24.95	626	67.0	5.5	30.8	30.6	23.8
3-4 PM	3416	0.0	2029	0.0	OFF	3416	0	2029+	0.92	84	66.5	38.5	38.5	29.3	29.3
4-5 PM	3909	0.0	2321	0.0	OFF	3909	0	2321+	0.00	0	64.1	64.1	64.1	27.8	27.8
5-6 PM	3900	0.0	2316	0.0	OFF	3900	0	2316+	0.00	0	64.2	64.2	64.2	27.8	27.8
6-7 PM	3503	0.0	2080	0.0	OFF	3503	0	2080+	0.00	0	66.4	66.4	66.4	29.1	29.1
7-8 PM	2623	0.0	1558	0.0	OFF	2623	0	1558+	0.00	0	67.5	67.5	67.5	31.7	31.7
8-9 PM	1723	0.0	1023	0.0	OFF	1723	0	1023	0.00	0	68.6	68.6	68.6	34.5	34.5
9-10 PM	1457	0.0	864	0.0	OFF	1457	0	864	0.00	0	68.9	68.9	68.9	35.3	35.3
10-11 PM	1314	0.0	781	0.0	OFF	1314	0	781	0.00	0	69.1	69.1	69.1	35.7	35.7
11PM-MID	1047	0.0	622	0.0	OFF	1047	0	622	0.00	0	69.4	69.4	69.4	36.6	36.6

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0100
MAIN ROUTE WITH WORKS	0.0084
DIVERSION	0.0478

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$73,203
CONGESTED HOURS PER DAY*	4

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51

OCTOBER
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

